

19990823.qrp v01_n557.qrl.990823

Date: Mon, 23 Aug 1999 19:03:06 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1557

QRP-L Digest 1557

Topics covered in this issue include:

- 1) [48207] NA Contest Logging Software For Sale
by mailbox-gaskins <pgaskin@imcnet.net>
- 2) [48208] Re: QRP Design
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- 3) [48209] Re:No Radial Vertical Antenna Question...
by "Paul Gerhardt" <pgerhardt@hotmail.com>
- 4) [48210] Re: QRP Design
by astone@erols.com
- 5) [48211] NEW PRODUCTS AT MORSE EXPRESS!
by "Marshall Emm" <mgemm@mtechnologies.com>
- 6) [48212] new address
by Art38M@aol.com
- 7) [48213] Re: QRP Design
by George F Franklin <w0av@juno.com>
- 8) [48214] Re: Spectrum Analyzer
by "Richard Arland" <r_arland@hotmail.com>
- 9) [48215] FS: NC-20 Kit
by Mark Sailer <msailer@willys.buoy.com>
- 10) [48216] Re: QRP Design
by Jim Lowman <jmlowman@ix.netcom.com>
- 11) [48217] Hotwater Handbook info
by David Kidd <ka7ozo@pacifier.com>
- 12) [48218] QRP rainout and the CQC QSO Party
by "Dave Ek" <ekdave@earthlink.net>
- 13) [48219] Re: MFJ Hi-Q Loop Antennas
by Phil Wheeler <w7ox@mindspring.com>
- 14) [48220] Re: MFJ Hi-Q Loop Antennas
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 15) [48221] mini altoids tins
by Michael C Boatright <ko4wx@mindspring.com>
- 16) [48222] Re: [MFJ Hi-Q Loop Antennas]
by Roy Lincoln <wa4dou@usa.net>
- 17) [48223] cqc qso party/antenna test
by "Dick Schneider" <dschneider2@uswest.net>
- 18) [48224] leaky battery mess
by Charles Kadesch <chas@digizen.net>
- 19) [48225] Humble Pie - An incredible antenna

by "Paul R. Valko" <prvalko@oakland.edu>
20) [48226] Old Heath Gear
by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
21) [48227] ARCTIME GROUP BUY UPDATE #5
by "Rod Cerkoney" <rcw@frii.com>
22) [48228] R-7000 Info & Looking for a Trade...
by Bruce Hopkins - KL7H <kl7h@arrl.net>
23) [48229] Re: Old Heath Gear
by neil <neil@aade.com>
24) [48230] Toroid identification
by "Donny Sirait" <dsirait@centrin.net.id>
25) [48231] MFJ Loop
by aweiss@usd.edu (Ade Weiss W0RSP)
26) [48232] RE: 30m DX and Where'd I get the idea...?
by aweiss@usd.edu (Ade Weiss W0RSP)
27) [48233] RE: 30m DX (continued)
by aweiss@usd.edu (Ade Weiss W0RSP)
28) [48234] RE:hu4u or ea4ure
by "Brian J Keegan" <brimail@home.com>
29) [48235] Re: [MFJ Hi-Q Loop Antennas]
by "dor" <elbc@pivot.net>
30) [48236] Heathkit
by "Perley Urquhart" <n1yuk@nemaine.com>
31) [48237] MILLIWATT CD
by Tom Arvo <wa8dxd@magicnet.net>
32) [48238] Extended Zepp Antenna questions
by Stanley Wilson <microres@crl.com>
33) [48239] TenTec items FS
by "Ken Simpson" <W8EK@fdt.net>
34) [48240] Heathkit reflector
by charles k brown <n4so@juno.com>
35) [48241] Re: QRP Design
by "wayne reed" <wlreed@viaduct.custom.net>
36) [48242] Re: Heathkit
by Chris Trask <ctrask@primenet.com>
37) [48243] Re: QRP Design
by George F Franklin <w0av@juno.com>
38) [48244] Half-Sloper Questions
by jsm@intergate.bc.ca (Steve McDonald)
39) [48245] RE: 30m DX (continued)
by Monte Stark <ku7y@dri.edu>
40) [48246] Re: QRP Design
by "Chuck Adams, K7Q0" <k7qo@hotmail.com>
41) [48247] Re: Feedline Measurements- Computer Ribbon Line
by Ed Loranger <we6w@qsl.net>
42) [48248] RE: 811s
by "Alex Mendelsohn" <ai2q@ispchannel.com>
43) [48249] TiCK/EMTECH NW40

by REDSBOY@aol.com

44) [48250] Re: QRP Design
by wd4et@juno.com

45) [48251] Re: Heathkit
by "Mike Czuhajewski" <wa8mcq@erols.com>

46) [48252] Re: QRP Design
by "Mark Bellamy" <mark@intermediatn.net>

47) [48253] NTE Crossreference
by JPD <jdanter@mail.i-america.net>

48) [48254] Re: Humble Pie - An incredible antenna
by DONALD I ROHER <donroher@juno.com>

49) [48255] RE: Humble Pie - An incredible antenna
by "Kory Hamzeh" <kory@avatar.com>

50) [48256] Re: Heathkit
by "William R. Colbert" <af852@rgfn.epcc.edu>

51) [48257] RE: Humble Pie - An incredible antenna
by "Paul R. Valko" <prvalko@oakland.edu>

52) [48258] Re: QRP Design
by Jim Durkin <jimdurkin@yahoo.com>

53) [48259] CFA (Crossed field antenna) Discussion and references
by Gary Hembree <gary.hembree@asu.edu>

54) [48260] CFA (Crossed field antenna) Discussion and references
by Gary Hembree <gary.hembree@asu.edu>

55) [48261] Re: MFJ Hi-Q Loop Antennas
by waltk8cv@juno.com

56) [48262] Re: QRP Design
by Jim Lowman <jmlowman@ix.netcom.com>

57) [48263] New Island Award Program
by Monte Stark <ku7y@dri.edu>

58) [48264] HiQ Loop antennas
by David J Adams <adamsclan@netgate.net>

59) [48265] re QRP Design
by Charles Kadesch <chas@digizen.net>

60) [48266] Re: MFJ Hi-Q Loop Antennas
by Dave Sjolin <sjolin@swbell.net>

61) [48267] Re: leaky battery mess
by Drbob92031@aol.com

62) [48268] sending practice
by "The One and Only!" <mitch96@pobox.com>

63) [48269] Re: QRP Design
by Jim Lowman <jmlowman@ix.netcom.com>

64) [48270] Re: QLF
by Goran Hosinsky <hosinsky@royac.iac.es>

65) [48271] Re: MFJ Hi-Q Loop Antennas
by Tim Ahrens <tahrens@hilconet.com>

66) [48272] Heathkit 25Mhz Oscilloscope
by "Art Neilson, KH7PZ" <art@hawaii.rr.com>

67) [48273] QST Sept issue

by "Chuck Adams, K7Q0" <k7qo@hotmail.com>
68) [48274] Re: QLF
by K2UD@aol.com
69) [48275] Re: sending practice
by Terry Bendell <terryb@bmts.com>
70) [48276] RE: QLF
by "Ed Tanton" <n4xy@att.net>
71) [48277] Antenna Fantasy
by mjfitz@uswest.net
72) [48278] Curtis Keyer
by "Charles Hamel" <cdhamel@pdq.net>
73) [48279] QLF
by "Colin" <gw3wsu@gw8nnc.screaming.net>
74) [48280] 15/10 Meter Converter?
by wb2vuo@juno.com
75) [48281] WTB: Ten Tec Argonaut 509
by "Tim Cook" <timcook@erinet.com>

Date: Sun, 22 Aug 1999 19:30:35 -0400
From: mailbox-gaskins <pgaskin@imcnet.net>
To: qrp-l@lehigh.edu
Cc: pgaskin@imcnet.net
Subject: [48207] NA Contest Logging Software For Sale
Message-ID: <199908222330.TAA26819@ns1.imcnet.net>

Dear Gang,

I have a copy of NA v.10 for sale for \$40.00. I also have an MFJ Icom RS232 interface for 30.00 (won't work on a 706mk2).

Due to my lack of DOS knowledge, I have been unable to make the program work for me (DUH).

NA has all the major contests as well as a template that can be customized for anything else (QRP!!!!).

If SERIOUSLY interested e-mail me. Shipping is 5.00 CONUS.

72

Pete

N2PG

pgaskin@imcnet.net

Date: Sun, 22 Aug 1999 16:35:33 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: mark@intermediatn.net
Cc: qrp-l@lehigh.edu
Subject: [48208] Re: QRP Design

Message-ID: <199908222119.RAA11151@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

> I'm extremely interested in learning how to design
> QRP transceivers. I have a strong background in

Mark,

A good place to start is with the ARRL Handbook. (as is often the case) There is much to be found in the Handbook about RF circuits and the how, why, pros and cons of various techniques.

Then study various rig designs, which can be found in books like "QRP Classics", "QRP Power", "Solid State Design for the Radio Amature" and the like, also ARRL publications.

Pick bits and pieces of circuits to match the parts you have or can get, adapt the circuits to what goals you have in mind and start playing. Nothing like hands on experiance to show what works and what doesn't.

Good luck and have fun !

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Sun, 22 Aug 1999 20:50:16 EDT
From: "Paul Gerhardt" <pgerhardt@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [48209] Re:No Radial Vertical Antenna Question...
Message-ID: <19990823005019.64857.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Bruce Hopkins - KL7H <kl7h@arrl.net>

< It is my understanding that they are running the R-7000 no <radial antenna... What is the collective wisdom on this <antenna and type of

antenna ??? I admit to being skeptical of <any vertical without radials save for a vertical dipole... Can <this antenna be improved with the addition of radials ??? Do we <have any do's and don'ts from any on the list using this type <of antenna ???

This weekend I got a chance to compare the R-7 and my G5RV because I finally got another feed line! The G5RV is in a tree with the apex about 30ft or so. One leg is straight out and the other slopes down to 15 feet or so. It is feed with 100 ft of RG8 type coax. The R-7 is mounted on a 12 ft. pole with dacron guys and 100ft of RG8x type coax. The G5RV is much better than the R-7 on short skip on 40. The difference seems to be as much as 4 s-units on a Yaesu FT-990 using the auto tune function. On 17M and 15M long skip. Tried it on some SE Asia signals and some VK's the signals were stronger on the R-7 in fact weak DX signals were sometimes undetectable on the G5RV and 5x1-2 on the R-7.

As far as grounds go I am using no grounds on anything! Bad practice I know. The R-7 is a half wave ant and therefore is not (I guess a Ground Plane). Some searching on the internet for the differences between the R-7 and the R-7000 has lead me to understand that there may be more reported failures on the R-7000 than there were on the R-7. This may not be a problem with QRP operation? The R-7000 is better looking but may not be a better performer.

It seems that the R-7 is a better low angle antenna on 15-17-10 than the G5RV at 30 feet. The G5RV is much better on 40 especially "short skip" and somewhat better for DX. On 20 the G5RV is usually better than the R-7 on short skip or DX but it is much closer than 40. On the 15-17-10M bands the R-7 and the G5RV seem close on short skip with the advantage often going to the R-7. On long paths the R-7 has a strong advantage over the G5RV.

Has anybody else tested this type ant against a G5RV?

Paul Gerhardt
K3PG
Centreville, MD

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Date: Sun, 22 Aug 1999 21:00:40 -0400
From: astone@erols.com
To: qrp-l@lehigh.edu
Subject: [48210] Re: QRP Design

Message-ID: <37C09D38.2BF@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Mark,

My favorite RF design books include RF Circuit Design by Chris Bowick (still in print I think), The Electronics of Radio by David Rutledge of Cal. Tech. - this is actually his notes for his course EE20 and analyzes the design of the Norcal 40A xcvr. I also highly recommend the Autumn 1998 issue of QRPp which is devoted to analyzing the design of Dave Benson's SW-40+ xcvr. These three sources assume little or no prior knowledge and really dig into design issues pretty well while generally avoiding a tremendous amount of math. Good luck!

72,

Ron (KA3J)
Bethesda, MD

Date: Sun, 22 Aug 1999 17:03:14 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: Morse.Express@edison.chisp.net, qrp-1@lehigh.edu, CQCList@cqc.org, CQCLowdown@aol.com
Subject: [48211] NEW PRODUCTS AT MORSE EXPRESS!
Message-ID: <199908222301.RAA27444@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Morse Express has some new keys, and for the builders among you we are now selling the solder that we use and recommend.

1. From Russia, we have obtained a supply of Soviet military keys. "New Old Stock" (NOS) , the TK and TKF keys were manufactured in Cherkassy, Ukraine, for the Soviet military up through the 1980s but were never delivered. Designed for heavy duty use, they are very robust but can be adjusted for a very nice feel. Tension, contact spacing, and bearing tension can all be adjusted. The hinged cover and base are a heavy plastic, as is the knob.

The TKF model has a filter built into it (but of course can be used as an ordinary straight key). Soviet military CW field operations were often very high power and "RF Dirty;" the filter was designed to keep induced RF currents

off the key line and eliminate contact sparking. Listed in Perera's "Telegraph Collector's Guide" they are very collectible and represent a lucky find for us and a rare opportunity for you to grab a piece of Cold War history at \$49.95.

The TK model is the same except that it lacks the filter unit and steel base plate. It's \$44.95

The TK and TKF keys can be seen at <http://www.MorseX.com/ru> .

2. We've also found something new and CURRENT in US MILITARY KEYS!

Available exclusively from Morse Express, Nye's new KY320 "Ranger Key" is an over-run from a current US military contract. Yes, the US military is still using Morse code! At least, Special Forces are. It was an operational Special Forces unit that recently ordered the KY320 leg strap key from Nye, built to their specifications. Unlike previous military "leg clamp keys" like the WWII era J-45, with a mediocre key on a horribly uncomfortable spring steel band, the Ranger Key is built for reliability and comfort. Based on the Speed-X 322-001 key, the Ranger Key features a contoured aluminum plate, hand finished and a comfortable fit on the top or side of your thigh. The custom two-inch wide nylon strap won't dig in. The quick release plastic buckle is easy and quick to connect and can be located out of the way so you aren't sitting on it.

Bill Nye is calling it the "Ranger Key," having declined on our suggestion to call it the "Snake Eater." [g] It's \$119.95 and you can see it at <http://www.MorseX.com/nye> .

3. Finally, for those of you who build things, we have been able to offer Kester's "245" No Clean Solder, in a convenient "pocket pack." It's the solder we use and recommend for use with the OHR kits. You'll find it on the page at <http://www.MorseX.com/tools> .

We have secure ordering facilities on the web site, or you can call 800-238-8205 toll free (orders only please). For info, call 303-752-3382 or write to:

Morse Express
2460 S. Moline Way
Aurora CO 80014 USA

Date: Sun, 22 Aug 1999 21:01:50 EDT
From: Art38M@aol.com
To: qrp-l@lehigh.edu
Subject: [48212] new address
Message-ID: <481a2056.24f1f77e@aol.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

here is my new email address
from: w1fji@vistech.net & artm@vistech.net
to: art38m@aol.com

tk's, 73 Art w1fji

Date: Sun, 22 Aug 1999 20:06:08 -0500
From: George F Franklin <w0av@juno.com>
To: astone@erols.com
Cc: qrp-l@Lehigh.EDU
Subject: [48213] Re: QRP Design
Message-ID: <19990822.200608.-249769.1.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Mark,

I highly recommend Paul, NA5N's Data Book for Homebrewers and QRPers, which analyzes several QRP rigs circuit by circuit. Much useful information for homebrewing.

The book is available from Quicksilver Printing, PO Box 757, Socorro, NM 87801 for \$20.00, including shipping.

72 de George/W0AV

Date: Sun, 22 Aug 1999 21:37:07 GMT
From: "Richard Arland" <r_arland@hotmail.com>
To: af389@lafn.org, qrp-l@Lehigh.EDU
Subject: [48214] Re: Spectrum Analyzer
Message-ID: <19990822213710.72452.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Gang:

I have just received my Poor Man's Spectrum Analyzer kit (?) and I also

bought the book that goes along with this semi kit.

This is NOT a beginners kit by any stretch of the imagination.

The manual is poorly laid out and could do with a complete rewrite. IMHO it is not worth the almost \$25 that they charge. There is a LOT more to this semi-kit than initially comes across in the ads or in a brief look at the manual.

The manual needs to have a fold-out master wiring diagram...as it currently stands, the manual has four pages that, when photocopied and properly arranged and taped together, give you an idea of what is connected to where. It would be MUCH better if Science Workshop would include a master fold-out in the manual.

Science Workshop recently increased their prices (first time in 10 years so I was told by Mr. Marlow).

Unfortunately, due to pressures of the job (this includes three escaped inmates in 2 weeks.....no, it wasn't my fault!) I will not be building my Spec Analyzer anytime soon. However, as I make progress I will report back to the group.

73 Rich K7SZ

>From: David Shalita <af389@lafn.org>

Hi Jerry,

>

>I built one, use it daily, find it useful, but has
>LIMITATIONS. Due to my lack of mechanical packaging capabilities,
>this SA project was a struggle for me.

>

>Contact Hugh Wells, W6WTU regarding the
>"Poor Man's Spectrum Analyzers" (SA) designed by Murray Barlowe?.

>

> W6WTU@JUNO.COM

>

>He is very familiar with using TV TUNERS and has built some of
>these SA units.

>

>I recommend you ALSO investigate the SA by Wes, W7ZOI,
>if you want to make measurements on RF levels.

>=====

>A Spectrum Analyzer for the Radio Amateur
>in August/September QST, 1998

>

>See W7ZOI's web page at

><http://www.teleport.com/~w7zoi/>

>=====

>

>

>73, W6MIK

>--

>David Shalita (Dave)

>af389@lafn.org

>Van Nuys, CA

>

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Date: Sun, 22 Aug 1999 21:15:38 -0400
From: Mark Sailer <msailer@willys.buoy.com>
To: qrp-1 <qrp-1@lehigh.edu>
Subject: [48215] FS: NC-20 Kit
Message-ID: <37C0A0BA.BBB5DB34@willys.buoy.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

I'm selling my NC-20 kit. This is the NorCal kit, not the RedHot Radio Kit.

I got it started, but just have too many other projects and house projects to get around to it. Everything is there and it has the 10 Turn pot installed.

\$110 plus shipping

Email me directly off the list.

Thanks

--

====

Mark Sailer, N2JTW msailer@buoy.com
Lake Grove L.I., NY

Date: Sun, 22 Aug 1999 18:34:19 -0700
From: Jim Lowman <jmlowman@ix.netcom.com>
To: qrp-l@lehigh.edu
Subject: [48216] Re: QRP Design
Message-ID: <37C0A51B.F7C113D4@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

astone@erols.com wrote:

> Hi Mark,
>
> My favorite RF design books include RF Circuit Design by Chris Bowick
> (still in print I think), The Electronics of Radio by David Rutledge of
> Cal. Tech. - this is actually his notes for his course EE20 and analyzes
> the design of the Norcal 40A xcvr. I also highly recommend the Autumn
> 1998 issue of QRPp which is devoted to analyzing the design of Dave
> Benson's SW-40+ xcvr. These three sources assume little or no prior
> knowledge and really dig into design issues pretty well while generally
> avoiding a tremendous amount of math. Good luck!

Gang,

Those of us who have the original EE20 course notes should be even happier to have them now. As Prof. Rutledge mentioned at Pacificon last year, this book has gone from an in-house publication to one published by Cambridge University Press, and now sells for a whopping \$100!

The web page at:

<http://www.its.caltech.edu/~mmic/group.html>

will provide more info.

72 de Jim - AD6CW

Date: Sun, 22 Aug 1999 18:58:20 -0700
From: David Kidd <ka7ozo@pacifier.com>
To: qrp-l@Lehigh.EDU
Subject: [48217] Hotwater Handbook info
Message-ID: <v03007800b3e65af23932@[206.163.5.35]>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I have the first edition...1991, my question is what is the latest version?

Please reply direct to ka7ozo@pacifier.com.

Thanks.

Dave
KA7OZO

Date: Sun, 22 Aug 1999 20:08:40 -0600
From: "Dave Ek" <ekdave@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [48218] QRP rainout and the CQC QSO Party
Message-ID: <000901beed0c\$6c205000\$41ac85ce@ekdave>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

This was a weekend which definitely had mixed results. Planned to go backpacking with my son on Sat and Sun, spending the night near one of the reservoirs here in Colorado--and of course doing the obligatory backpack-qrp-thing. Was gonna use my SW+40 and ZM-2 with a distributed capacitance twisted loop ('cause I built the loop for use in hotel rooms but never had given it a fair chance). It all fits in a gallon ziploc.

And lucky for me, I put it all in a gallon ziploc! Saturday morning's hike to the first waypoint went great, but the weather forecast held ominous warnings for the afternoon and evening. There's nothing like a warning of cloud-to-ground lightning to get your attention when you're nearly the tallest thing around. That, and the forecast of heavy rains, sent us headed back to the car. Unfortunately, we raced the rain and the rain won (do I hear a song?). We hiked the last 15 minutes in a good downpour and we were soaked! Thanks to the baggie, my ham gear was dry.

Well, every cloud has its silver lining, and this one's was that I'd be able to play in the CQC Summer QSO party today. I stuck to 20m, alternating between my NC20 and my ICOM 706. Made only 17 contacts in between loads of laundry, errands, etc. but had lots of fun. And to top it off, this evening a ran into a new CQC member, Jim in AZ, #612 perchance on 40m!

An event-filled weekend, and certainly an adventure, but one I'd rather not repeat!

72,

Dave AB0GO

Date: Sun, 22 Aug 1999 19:29:03 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: tmccullo@suffolk.lib.ny.us
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [48219] Re: MFJ Hi-Q Loop Antennas
Message-ID: <37C0B1EF.9A3AB3C1@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Tom,

There was a review of (one of these) antennas and other compact antennas in a fairly recent QST (March 1998). If you are an ARRL member, you can get it by entering the "members only" part of the ARRL web site.

They reviewed the MFJ 1788. The summary results were that it is convenient, pretty much like mobile antenna performance on 30 and 40, sometimes comparable with R7000 performance on higher bands (but I do not think it is designed for bands above 15 m).

BTW .. in August 1994, they reviewed the 30 m thru 10 m version; I have not looked at that article.

Phil W7OX

Tom McCulloch wrote:

>

> Hi All,

> This may have been discussed before, however, I was wondering if anyone

> has any experience with the MFJ "Super High-Q Loop" Antennas.
> Notwithstanding the narrow bandwidth inherent in these designs, I 'd
> appreciate any feedback. I thought the narrow bandwidth wouldn't be too
> much of a problem because I spend most of my time in the qrp portion of the
> cw bands.
>
> MFJ has several models out now. The MFJ-1785 is about 3 feet in
> diameter and covers 10 through 30 MHz. They have a newer model, MFJ-1788
> which 40 to 15 meters (I'm not clear whether it goes up to 10 meters or
> not).
>
> Thanks in advance for any input you may have.
>
> Tom
> WB2QDG

Date: Sun, 22 Aug 1999 21:48:14 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: tmccullo@suffolk.lib.ny.us, Low Power Amateur Radio Discussion <qrp-
l@Lehigh.EDU>
Subject: [48220] Re: MFJ Hi-Q Loop Antennas
Message-ID: <002b01beed11\$f351bdc0\$01883cd8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Tom,

I don't have specific information on the MFJ loops but I have updated a page
on my site dedicated to small transmitting loop antennas and thought you
might find something useful. The URL is:

<http://home.swbell.net/aa5tb/loop.html>

By the way, in case you didn't already know, the URL for the MFJ loops is:

<http://www.mfjenterprises.com/antennas/loop.html>

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Sun, 22 Aug 1999 22:44:05 -0400
From: Michael C Boatright <ko4wx@mindspring.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [48221] mini altoids tins
Message-ID: <37C0B575.DD31090D@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My wife knows how crazy I am, and bought me one mini Altoids tin at our local CVS pharmacy. I've found them to be a good supplier of various tin boxes, such as Whitman's Samplers and Whitman's Surprise Tin. 'course, my favorites are the International Coffee tins, but I don't know if CVS carries those or if I get them at Publix (<http://www.qsl.net/ko4wx/projects/PGR80/pgr80.html>). CVS is also a good place to get bud earphones cheap at \$4.99.

BTW, Tech America sells a 1/4height 3686.4 XTAL for just over a buck. Perfect for the little altoid tin.

72 de Mike, K04WX

--
Mike Boatright, K04WX
District EC, GEMA, Amateur Radio Emergency Service

A rock pile ceases to be a rock pile the moment a single man contemplates it, bearing within him the image of a cathedral.
Antoine de Saint-Exupery

Date: 22 Aug 99 22:53:49 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: tmccullo@suffolk.lib.ny.us, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [48222] Re: [MFJ Hi-Q Loop Antennas]
Message-ID: <19990823025349.13381.qmail@www0s.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi Tom,

These antennas are very small relative to a quarter or half wavelength=

Therefore they have poor efficiency. Coupled with a rather steep pricetag=

, i think they are not worth fooling with. Would rather see you pursue a trap=

dipole or mobile antenna or anything other than a "Hi Q Loop." Whatever y=

ou do, good luck. 73 Roy WA4DOU

-----=

- =

=

"Tom

McCulloch" <tmccullo@suffolk.lib.ny.us> wrote:

Hi All,

This may have been discussed before, however, I was wondering if anyone=

has any experience with the MFJ "Super High-Q Loop" Antennas.

Notwithstanding the narrow bandwidth inherent in these designs, I 'd appreciate any feedback. I thought the narrow bandwidth wouldn't be too much of a problem because I spend most of my time in the qrp portion of t= he cw bands.

MFJ has several models out now. The MFJ-1785 is about 3 feet in diameter and covers 10 through 30 MHz. They have a newer model, MFJ-1788=

which 40 to 15 meters (I'm not clear whether it goes up to 10 meters or not).

Thanks in advance for any input you may have.

Tom

WB2QDG

Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>

Date: Sun, 22 Aug 1999 20:58:10 -0600

From: "Dick Schneider" <dschneider2@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.edu>, "cqclist" <cqclist@cqc.org>
Subject: [48223] cqc qso party/antenna test
Message-ID: <000d01beed13\$55c9c280\$bd9ca0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FB CQC QSO PARTY!

Also, it was the first test of the new Gap Titan, which seemed to do well, even though the bands were noisy. Unfortunately, a few miscalculations (like I thought my step ladder was a 12-footer when it was really an 8-footer) had me installing the counterpoise and re-erecting the antenna during the first two and a half hours of the contest. But I invited Larry, WJ1R, to come over and operate W0CQC. So, after my two QSOs with locals, Larry jumped in and really tested the antenna, working: CO, ID, AR, AB, MN, TX, OK, AZ, MI, AL, MA, BC, PA, ON, OR.

Tnx to everyone for joining in!

72 Dick AB0CD..
CQC Sec/Treas.

Date: Sun, 22 Aug 1999 23:00:02 -0700
From: Charles Kadesch <chas@digizen.net>
To: qrp-l@lehigh.edu
Subject: [48224] leaky battery mess
Message-ID: <37C0E362.5686@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Fellow voyagers of the ether:
Once again I waited too long to replace an alkaline battery and now have the resultant green corrosion to remove. The nasty stuff has wicked its way down the wires. In the past I have used baking soda solution followed by vinegar (after scraping off the bulk of the mess) but I am wondering- Is there anything more "state of the art" recommended for this onerous task.

-TNX and 72-
Chas W3KC

Date: Sun, 22 Aug 1999 23:35:50 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: QRP List <qrp-l@lehigh.edu>
Cc: tentec@contesting.com
Subject: [48225] Humble Pie - An incredible antenna
Message-ID: <Pine.OSF.3.95.990822230632.10509A-100000@saturn3.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

For 20-some years I have scoffed whenever I read or heard about somebody who had to use an indoor antenna. I was convinced that there was no way anything like that would work.

I'm sorry, I was wrong.

Even though I am a huge fan of Rocky's articles in the Mi-QRP Club magazine, I need really gave much credance to his "ramshackle radiator."

So anyways... for several years we've owned this small cottage up in the "thumb" of Michigan. The children lovingly call it, "The Little House." Even after all those years, I never got much up for a skyhook, other than the occasional mobile-whip-on-a-magmount-stuck-on-the-shed.

A few weeks ago, I bought a 50' spool of 16ga lamp cord at Radio Shack. So out of desperation last night, I split that 'zip cord' down the middle and quickly had a tangle of two 50' wires.

After untangling the mess I had created, I cautiously screwed the striped end of one of the wires into my trusty MFJ tuner. There was NO feed line, so I simply decided to use the "Balanced Line" output connections.

My Triton IV sprang to life with the buzz of the 40M band. Within moments, I had that first 50 feet of wire run all along the walls of the cottage. The wire was stuffed into cracks, draped over the windows, hung over doors. The second 50 feet was connected to the opposite side of the balanced line outputs and likewise draped in the opposite direction, ending up in the closet of the girl's bedroom.

What I ended up with, was basically, a six-foot-high horizontal loop,

indoors of an aluminum sided 900 sqft cottage.

The antenna loaded up fine on 40M. My daughters and their overnight guest were none too pleased with the TVI, but they needed to go to bed soon anyways.

The NJ-QSO Party was active and I quickly made a few QSOs, both on high power SSB, and QRP CW! There was a lot of activity on 20M so I tuned up there and worked a station in TX while running 10W SSB.

I worked a station in France on 40M CW and 100w.

Actually, I worked everyone I could hear. It was almost like being at home.

Imagine if this were outdoors!?! I'll be putting up a horizontal loop soon at W8KC. Maybe this year *I'll* work a few more foxii!

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Sun, 22 Aug 1999 17:48:02 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: qrp-1@lehigh.edu
Subject: [48226] Old Heath Gear
Message-ID: <3.0.6.32.19990822174802.008b1300@clients1.hawaii.rr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A friend of mine has some old Heath gear he wants to sell. The items are listed below, I am unsure of the items value. Can someone give us a ballpark value of the items in question?

1. SB-221 2000W linear
2. SB-401 Transceiver
3. SB-3-3 Receiver
4. SB-1400 Transceiver

Thanks!!!

--

```
  /  )    _/_  It is a capital mistake to theorise before one has data.
 /--/  _/  /    Insensibly one begins to twist facts to suit theories,
 /  (_/  (_<_  Instead of theories to suit facts.
                        -- Sherlock Holmes, "A Scandal in Bohemia"
```

Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support
art@hawaii.rr.com

Date: Sun, 22 Aug 1999 21:58:20 -0600
From: "Rod Cerkoney" <rlwc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [48227] ARCTIME GROUP BUY UPDATE #5
Message-ID: <004f01beed1b\$cdefd760\$258711d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Folks:

I have sent email directly to all parties who have expressed interest in purchasing an Arcron WWVB Travel Alarm clock. If you did not receive email from me directly, but sent me email expressing your intent to buy--I'm sorry I did not receive your email. No problem though, within the next 10 days send me email stating how many clocks you want. I am on vacation now but when I return I'll collect my email and add you to the buyers list.

This is the last update anyone will receive until I return from vacation on 01-Sep.

72/3 Rod, N0RC
da di dah

Date: Sun, 22 Aug 1999 20:06:45 -0800
From: Bruce Hopkins - KL7H <k17h@arrl.net>
To: qrp-l@lehigh.edu
Subject: [48228] R-7000 Info & Looking for a Trade...
Message-ID: <v03007807b3e66fa00ac2@[208.161.166.18]>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang...

First a big thank you to all the folks that sent me their data and observations on the R-7000 and its variants... What a group!!! It was a big assist and enabled me to help the folks out, armed with some knowledge... I had 9 responses to my question and if anyone would like that data, just drop me an e-mail and I will send the compilation to you...

While I am sure winter is not something on most of your minds right now, our leaves have already started to change and we are getting a bit of a nip from the north in the evenings... I am putting the last of the insulation in my new 10' x 12' hamshack and will install the woodstove soon... I plan to devote most of this new shack to glow in the dark rigs (at QRP levels, of course) and I am in need of a receiver... I have to trade, a Casio E-10 PDA with 4MB running Windows SE-2... It is complete with the docking station, all software and documentation and the original box... This PDA was \$400 new and is in new condition, used less than 10 hours... Here is a URL if you want to know more about the E-10:

<http://search.zdnet.com/pcmag/firstlooks/9805/f980529a3.htm>

On my want list in order of preference are:

Hammarlund HQ-180A
Hammarlund HQ-170A
Hallicrafters SX-115
Hallicrafters SX-101
Hallicrafters SX-100

On a swap like this, I am looking for a receiver that works well and is nice cosmetically... I will entertain other offers, like a K-2 8^), but the above are my primary choices... This will be used in a QRP environment but lets keep the responses direct so as not to plug the list...

Take care and have fun... Look for you all on 10M this fall if the bands ever open up here in the Arctic...

72 / 73 / oo's - Bruce - KL7H
Fairbanks, Alaska

"Alaska QRP Club" - Web Site: <http://home.gci.net/~bhopkins/akqrp>
- 10 Meter Beacon: 28.282.28+/- KL7AQC / BCN

Date: Sun, 22 Aug 1999 21:12:13 -0700
From: neil <neil@aaade.com>
To: art@hawaii.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [48229] Re: Old Heath Gear
Message-ID: <37C0CA1C.F06310AE@aaade.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For recent selling prices on ham gear check:
<http://www.aaade.com/hampedia/prices2.htm>

--
Neil
<http://www.aaade.com>
<mailto:neil@aaade.com>
Almost All Digital Electronics
1412 Elm St. SE
Auburn, WA 98092
253-351-9316

Date: Mon, 23 Aug 1999 10:47:10 +0700
From: "Donny Sirait" <dsirait@centrin.net.id>
To: "QRP Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [48230] Toroid identification
Message-ID: <199908230426.LAA02274@smtp.centrin.net.id>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,

I'm reall a dummy in this aspect and simply could not afford to obtain the needed references here therefore I would appreciate any help from the talented group.

My question is:

1. What is the difference between iron powdered toroid and a ferite and it's application (especially in RF)?
2. How do you identify which is iron powdered and ferite suppose you were given one?
3. What is the formula to achieve a given inductance on a toroid?
4. I was given several toroids which I intend to use on my radio project if possible however I cannot identify it any help? The toroids are taken from a damaged EAS (Electronic Article Surveillance) power pack supplying 58 KHz burst signals to the detection pedestals and the dimension is as follows:

Toroid A

Outer diameter: 1.125 inch

Inner diameter: 0.75 inch

Thickness: 0.1875 inch

Width: 0.625 inch

Colour: Before it is coated with grey paint? but then when I clean it with thinner the original black (greyish) colour were left.

Toroid B

Outer diameter: 0.5 inch

Inner diameter: 0.3125 inch

Thickness: 0.09375 inch

Width: 0.25 inch

Colour: Before it is coated with grey paint? but then when I clean it with thinner the original black (greyish) colour were left.

The equipment manual does not mentioned the toroid identification just the inductance value from the wound coil as 330 uH (the small one) but I forgot the value (it is in the mH range) for the bigger one.

I COULD GIVE MORE DETAILS ON THE ORIGINAL EQUIPMENT
BUT I THINK IT IS NOT ETHICAL TO DISCLOSE COMMERCIAL
INFORMATION, AND I JUST WANT TO MAKE USE HARD TO FIND
ITEMS WHICH OTHERWISE WILL BE USELESS.

Any replies will be appreciated either through the list or direct to
yb6ld@arrl.net.

vy 73 es gl de YB6LD/1 Donny qrp-l #2004

Date: Mon, 23 Aug 1999 02:21:45 -0500 (CDT)
From: aweiss@usd.edu (Ade Weiss WORSP)
To: tmccullo@suffolk.lib.ny.us
Cc: qrp-l@lehigh.edu
Subject: [48231] MFJ Loop
Message-ID: <199908230721.CAA23040@sunburst.usd.edu>

Hi gang:

I've never used one, but while was in PA back in May, I worked G3RFE in Bristol on the west coast of England who was using an MFJ loop and 10 watts on 30m. The loop was mounted 9-ft off the ground. He was a 559 and we QSO'd from 0602-0625 -- just before the band went out. I was using th Sierra (4w) and W6MMA SLV. Tom said he had worked KL7 and W6 on 30m with the loop. He had a good location -- near-field maybe not so hot for ground reflection but maybe better than usual, but the other hops were viasaltwater. So, his MFJ + location works well. That may be the key. I probably wouldn't try an MFJ loop here in the r.f. black hole of the world in SD unless someone donated it for a try-out!

Frankly, I was amazed that the tiny (relatively speaking) MFJ loop was actually putting a solid copy signal into PA!

For what it's worth!

72, Ade

Date: Mon, 23 Aug 1999 02:43:37 -0500 (CDT)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [48232] RE: 30m DX and Where'd I get the idea...?
Message-ID: <199908230743.CAA24122@sunburst.usd.edu>

Hi gang:

Nothing important or informative in this note -- just ruminations about qRP experience.

July was pretty crummy on 30m in SD. Only 21 DX QSO's in really ragged QRN conditions. Signal strengths also pretty poor. That included new DXCC FP, R1, MJ (GJ), and CY9. Boy was it depressing. But that motivated me to put up a halfwave ended up 48-ft oriented on 30-degrees -- beamed at EU in a manner of speaking. I wanted to compare the pair of phased SLV's with a horizontal at a halfwave. Roy's (W7EL) EZNEC kept telling me that a horizontal at 48-ft equaled the phased verticals at the lowest angles, and had 2-3dB gain over the verticals at above 20-degrees. "How can that be?" I kept asking myself. After all, SD has best ground in the country except for coastal areas, and with 17 radials under each, how could they not be superior to a horizontal? Well, it may be a matter of 30m perking up.

30m turned the corner with the active region of the sun around 8/2, Beginning

8/5 until 8/22, I worked 40 DX stns, two = VE9 which don't really count, a couple of V47's and VP2E's, PJ7, C6A, VP9, HU4 (El Salvador), CP8, LU5, PJ7 (2), and the rest EU (except ZL). 6 new countries.

[BREAK -- ZL1HMI just answered me at 0744 QRX

Date: Mon, 23 Aug 1999 03:20:48 -0500 (CDT)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [48233] RE: 30m DX (continued)
Message-ID: <199908230820.DAA25875@sunburst.usd.edu>

0808 -- I'm back, AND, HOLY SHIT!!!!!!!!!!!!!!
I can't believe it!!!!!!!!!!

So, the QSO with ZL1HMS was solid 0744-0754.
Slid down to 102.7 and caught the tail-end of "DX K" -- could tell it was a DX signal, so I did a quick "W0RSP BK", to which he came back "QRZ W0???". Nothing lost if he turned out to be some dinky CARIB stn. So naturally, I went back "W0RSP etc."

He immediately came back "W0RSP de FK8GJ"!!!!!!

FK8!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!1 Can you believe it? An endfed halfwave at 48-ft fed by a Sierra at 4w and Marc in New Caledonia picks me off after a x1 break!!!!

Man this is a HIGHHHHHHHH!!!!!! I never heard an FK before.
NOW I WORKED ONE "569 to 339".

Damn I could jump around. Yea, it's important that this is DXCC country #90 on 30m with crap antennas. But an FK8! WOW!!! Boy, I better just stop this celebrating and loading the bandwidth, but hey, how many of you QRP'rs know what it is to work an FK8 on 30m from SD??? Out of sight. Ok. OK. I must be getting pretty repetitious and boring. I'm high -- wheeeeeeee!!!

OK. Cool it and back to my subject. Two night ago I was sitting here and being tortured by the increible QRN. Nonetheless, I worked barely copiable friend HB9BQR, then OE50HO, and VP2EET, the latter in a pile-up. The two EU's were 439 and 449 and difficult copy for them -- and for me as a matter of fact. When it takes two or three go-arounds for me to finally copy their calls correctly ... well, that's what led me to thinking about my attitude and qRP experience, the main subject of this and the last post.

Most of the DX I've worked during August has been battered by QRN and at poor signal levels -- I gave them 579's, but really, 459/469 is more truthfull. Some were 339. I got to thinking about my mental state while trying to work DX on 30m. A question sums it up. Here I am sitting in front of this little xcvr -- Wayne Burdick's Sierra-- that puts out 4w but has a great and highly selective receiver. And I've got 47.9-ft of #16 wire up at 48-ft. A little gelcel sits there supplying the power. You get the picture -- this is a "nothing" station when it comes to working DX on 30m. I'm hardly copying these DX stns.

The question is: where in hell did I get the notion that I should be able to work them? Where did I get the idea that they would ever be able to copy me, given the power ratio of 1:20 or 1:40? I can hardly copy them. How can I get pissed off and cuss a DX stn when he doesn't come back to me? Like those UA0's and OK's and LZ's? Man, they shouldn't be able to hear me at all!!

I don't know. Maybe it's getting up to 90 countries on 30m that makes me anxious and then resent not getting the QS0. Like the HK0 on San Andres two nights ago -- Juan was 579. But he was QS0'ing, not running. 4 stns in half-hour. Man, I got fed up. I shouldn't have expected to get him. So I went up and watched Archie Bunker.

Don't know. Maybe too many FK8's and 3B8's and CE0's and 3D2's.... Too many "highs". Oh well, I have no answers.

But damn, I worked FK8GJ on 30m tonight while I was wiling away the time talking to the gang on QRP-L.

WOW!

72, Ade

Date: Mon, 23 Aug 1999 05:56:41 -0400
From: "Brian J Keegan" <brimail@home.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [48234] RE:hu4u or ea4ure
Message-ID: <001701beed4d\$d674dc00\$12960318@cc1016490-a.vron1.nj.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

HU4U is in El Salvador. EA4URE info is:

UNION RADIOAFICIONADOS ESPA OLES
Box 220 MADRID
Madrid E-28080
SPAIN

Brian
kf2hc@njdx.org

Date: Mon, 23 Aug 1999 06:46:58 -0400
From: "dor" <elbc@pivot.net>
To: <wa4dou@usa.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [48235] Re: [MFJ Hi-Q Loop Antennas]
Message-ID: <001501beed54\$d3eb46c0\$2c10a1d0@mine1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Roy though you are right there are some trade off's that might make the loop a better choice sometimes..

first the loop works quite well an all radiation angels in the plane of the loop, secondly It works well close to the ground, I had one up here for couple of years , wasn't the MFJ, but a Home brew version, It worked surprizingly well when mounted only 4 feet off the ground, I Grant you that if you can get a Dipole up about 30 feet or so it will out perform the Loop every time. But don't write the loop off completely, cause it does work, under condition the dipole would not do too well in.. As for the Mobil whip they can be just a inefficient as the small loop, Food for thought,
73 DAVE

----- Original Message -----

From: Roy Lincoln <wa4dou@usa.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Sunday, August 22, 1999 10:53 PM
Subject: Re: [MFJ Hi-Q Loop Antennas]

> Hi Tom,
> These antennas are very small relative to a quarter or half wavelength.

> Therefore they have poor efficiency. Coupled with a rather steep pricetag,
i
> think they are not worth fooling with. Would rather see you pursue a trap
> dipole or mobile antenna or anything other than a "Hi Q Loop." Whatever
you
> do, good luck. 73 Roy WA4DOU
> -----
>
>
> "Tom
> McCulloch" <tmccullo@suffolk.lib.ny.us> wrote:
> Hi All,
> This may have been discussed before, however, I was wondering if anyone
> has any experience with the MFJ "Super High-Q Loop" Antennas.
> Notwithstanding the narrow bandwidth inherent in these designs, I 'd
> appreciate any feedback. I thought the narrow bandwidth wouldn't be too
> much of a problem because I spend most of my time in the qrp portion of
the
> cw bands.
>
> MFJ has several models out now. The MFJ-1785 is about 3 feet in
> diameter and covers 10 through 30 MHz. They have a newer model, MFJ-1788
> which 40 to 15 meters (I'm not clear whether it goes up to 10 meters or
> not).
>
> Thanks in advance for any input you may have.
>
> Tom
> WB2QDG
>
>
>
> -----
> Get free email and a permanent address at <http://www.netaddress.com/?N=1>
>

Date: Mon, 23 Aug 1999 07:37:38 -0400
From: "Perley Urquhart" <n1yuk@nemain.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [48236] Heathkit
Message-ID: <000101beed5b\$e83d7060\$a34488d0@urquhart>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Is there a web site dedicated to Heathkit, like a reflector? Or a site showing old rigs etc.? Tried to get on a site called Heathkit Museum, but was denied access. Perley, N1YUK

Date: Mon, 23 Aug 1999 08:07:05 -0400
From: Tom Arvo <wa8dxd@magicnet.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [48237] MILLIWATT CD
Message-ID: <3.0.5.32.19990823080705.01e207d0@mailhost.arvo.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang:

It was brought to my attention that some questions were asked a few weeks back regarding the Milliwatt CD. The CD is a reproduction of the 33 original issues of the Milliwatt QRP Journal published by Ade Weiss, W0RSP during the first half of the 1970's. For those interested, it is still available and at a new reduced price. Details are on our web site which is currently being updated at <http://www.qrpworld.com>

73, Tom WA8DXD

Date: Mon, 23 Aug 1999 05:03:32 -0700 (PDT)
From: Stanley Wilson <microres@crl.com>
To: qrp-l@Lehigh.EDU
Subject: [48238] Extended Zepp Antenna questions
Message-ID: <Pine.SUN.3.91.990823045702.14553B-100000@crl2.crl.com>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This one is for the guys with the software pgms.

An extended zepp for 20 meters is close to a 1/2 wave on 30 meters. Also wonder what happens on 15 and 10 meters for one that was cut for 20 mtrs ?

Gain and VSWR on all the above say with about 44 ft and 9 inches. Fed with 450 ohm open line. Would not want to change the feed line length for the different bands so would use a tuner, but would some lengths be better.

Height above ground.. about 27 ft.

With the sun spot cycle thinking this might be the antenna for this fall.

Thanks, de stan

Date: Mon, 23 Aug 1999 08:17:00 -0400
From: "Ken Simpson" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [48239] TenTec items FS
Message-ID: <01d101beed61\$679e70c0\$70c9fea9@kensimps>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

TenTec Items For Sale:

Argosy II 525 D, digital model of Argosy. 80 through 10 meters.
50 Watts, or 5 Watts, with the flick of a switch, CW/SSB,
Manual included for \$ 375

224 CW filter for Argosy (For sale only after Argosy sells,
first choice goes to buyer of Argosy) \$ 30

218 crystal filter - 1800 Hz narrow SSB filter for use
in 9 MHz IF (Omni, Argosy, etc.) \$ 70

252 power supply, 20 amp, 13 V DC supply.
Ammeter. Speaker added. \$ 100

280 heavy duty 20 amp, 13 V DC power supply
ammeter, manual, presently has connector for
Kenwood/Icom, but can easily be changed back to
TenTec connector. \$ 150

Prices do not include shipping from Florida.

E-mail to W8EK@fdt.net

Thanks.

73,

Ken, W8EK

Ken Simpson
E-Mail to W8EK@fdt.net or W8EK@juno.com
Voice Phone (352) 732-8400

Date: Mon, 23 Aug 1999 08:17:28 EDT
From: charles k brown <n4so@juno.com>
To: qrp-1@lehigh.edu
Subject: [48240] Heathkit reflector
Message-ID: <19990823.121341.7367.3.n4so@juno.com>

Heathkit had a reflector in July 1997.
I subscribed to it and tested it out.
Text file Heathsub.txt

Ken Brown
qrp-1 622/ nr Mobile, AL
NC-20

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Mon, 23 Aug 1999 08:03:36 -0400
From: "wayne reed" <wlreed@viaduct.custom.net>
To: <w0av@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [48241] Re: QRP Design
Message-ID: <000201beed60\$009412a0\$3d4961ce@q7c8d5>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gangue,
Paul Harden's [NA5N] fine Data Book for Homebrewers and QRPers belongs
on the workbench of every committed QRP homebrewer/builder. The hobby is

growing so quickly and there are so many new products out there that Paul says he has thought of a second edition <yea!>. One of his questions concerns format. I think he is considering 3 ring binder - loose leaf, allowing future updates.

We should encourage this effort. What do you think?

Wayne Reed, k9ne
wlreed@custom.net

Date: Mon, 23 Aug 1999 06:28:41 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Perley Urquhart <n1yuk@nemainc.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [48242] Re: Heathkit
Message-ID: <Pine.BSI.3.96.990823062628.14508C-100000@usr04.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 23 Aug 1999, Perley Urquhart wrote:

> Is there a web site dedicated to Heathkit, like a reflector? Or a site
> showing old rigs etc.? Tried to get on a site called Heathkit Museum, but
> was denied access. Perley, N1YUK
>

Perley,

Here's the complete instructions I got when I subscribed to the
Heathkit list:

=====
Your subscription to the HEATH list (Heathkit Owners and Collectors List)
has been accepted.

Please save this message for future reference, especially if this is the first time you subscribe to an electronic mailing list. If you ever need to leave the list, you will find the necessary instructions below. Perhaps more importantly, saving a copy of this message (and of all future subscription notices from other mailing lists) in a special mail folder will give you instant access to the list of mailing lists that you are subscribed to. This may prove very useful the next time you go on vacation and need to leave the lists temporarily so as not to fill up your mailbox while you are away! You should also save the "welcome messages" from the list owners that you will occasionally receive after subscribing to a new list.

To send a message to all the people currently subscribed to the list, just send mail to HEATH@LISTSERV.TEMPE.GOV. This is called "sending mail to the list", because you send mail to a single address and LISTSERV makes copies for all the people who have subscribed. This address (HEATH@LISTSERV.TEMPE.GOV) is also called the "list address". You must never try to send any command to that address, as it would be distributed to all the people who have subscribed. All commands must be sent to the "LISTSERV address", LISTSERV@LISTSERV.TEMPE.GOV. It is very important to understand the difference between the two, but fortunately it is not complicated. The LISTSERV address is like a FAX number that connects you to a machine, whereas the list address is like a normal voice line connecting you to a person. If you make a mistake and dial the FAX number when you wanted to talk to someone on the phone, you will quickly realize that you used the wrong number and call again. No harm will have been done. If on the other hand you accidentally make your FAX call someone's voice line, the person receiving the call will be inconvenienced, especially if your FAX then re-dials every 5 minutes. The fact that most people will eventually connect the FAX machine to the voice line to allow the FAX to go through and make the calls stop does not mean that you should continue to send FAXes to the voice number. People would just get mad at you. It works pretty much the same way with mailing lists, with the difference that you are calling hundreds or thousands of people at the same time, and consequently you can expect a lot of people to get upset if you consistently send commands to the list address.

You may leave the list at any time by sending a "SIGNOFF HEATH" command to LISTSERV@LISTSERV.TEMPE.GOV. You can also tell LISTSERV how you want it to confirm the receipt of messages you send to the list. If you do not trust the system, send a "SET HEATH REPRO" command and LISTSERV will send you a copy of your own messages, so that you can see that the message was distributed and did not get damaged on the way. After a while you may find that this is getting annoying, especially if your mail program does not tell you that the message is from you when it informs you that new mail has arrived from HEATH. If you send a "SET HEATH ACK NOREPRO" command, LISTSERV will mail you a short acknowledgement instead, which will look different in your mailbox directory. With most mail programs you will know immediately that this is an acknowledgement you can read later. Finally, you can turn off acknowledgements completely with "SET HEATH NOACK NOREPRO".

Following instructions from the list owner, your subscription options have been set to "NOFILES REPRO MIME" rather than the usual LISTSERV defaults. For more information about subscription options, send a "QUERY HEATH" command to LISTSERV@LISTSERV.TEMPE.GOV.

Contributions sent to this list are automatically archived. You can get a list of the available archive files by sending an "INDEX HEATH" command to LISTSERV@LISTSERV.TEMPE.GOV. You can then order these files with a

"GET HEATH LOGxxxx" command.

This list is available in digest form. If you wish to receive the digested version of the postings, just issue a SET HEATH DIGEST command.

Please note that it is presently possible for other people to determine that you are signed up to the list through the use of the "REVIEW" command, which returns the e-mail address and name of all the subscribers. If you do not want your name to be visible, just issue a "SET HEATH CONCEAL" command.

More information on LISTSERV commands can be found in the LISTSERV reference card, which you can retrieve by sending an "INFO REFCARD" command to LISTSERV@LISTSERV.TEMPE.GOV.

```

      /-----\
      /  What's all this  \
      / extinct stuff, anyhow? \
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```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Mon, 23 Aug 1999 09:14:46 -0500
From: George F Franklin <w0av@juno.com>
To: wlreed@viaduct.custom.net
Cc: qrp-1@Lehigh.EDU
Subject: [48243] Re: QRP Design
Message-ID: <19990823.091447.-90361.0.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Wayne,

I think a second edition of Paul's book is a great idea.

72 de George/W0AV

Note to Paul: Keep those commission checks coming!

Date: Mon, 23 Aug 1999 08:00:56 -0700 (PDT)
From: jsm@intergate.bc.ca (Steve McDonald)
To: qrp-1@Lehigh.EDU
Subject: [48244] Half-Sloper Questions
Message-ID: <199908231500.IAA07453@vector.intergate.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I recently installed a half sloper for 40m...top of the 50' tower. Lots of Yagis (6/2/432 and tribander above for top-loading). The antenna slopes at about a 45 degree angle and the end is roughly 60' from the ocean. The SWR on this antenna was very nice, 1:1 at 7.050 after trimming. The bandwidth caused some alarm as it was too wide...about 600khz between 2:1 points. Does this indicate the poor ground beneath the system?

I then put another sloper off of the same feedpoint, for 80m and at right angles to the first sloper. The lowest SWR that I can get on this sloper is about 2.3:1 but it also made the SWR on the 40m antenna rise slightly...not enough to worry about and shifted the resonance point up about 50khz higher...no problem so far. Now, however, the bandwidth of the 40m antenna is much narrower, about 200 khz between 2:1 points...what would cause this and is this necessarily a bad sign??

Now, I understand that the half sloper should have a good radial/ground system as well, so just for starters I placed three 33' resonant radials from the base of the tower and grounded to the tower. I could see no noticeable changes in SWR or bandwidth after adding these (no surprises here) but, I thought that if the original ground system was so poor, that there might have been some narrowing of the bandwidth. (The radials were added to the original wide-bandwidth 40m system alone as well and no changes were measured).

My question is...are my 3 radials worth it?...are they doing anything?...how can the effect of the radial addition be measured??

Why is the bandwidth so wide on the single 40m sloper and why did it sharpen up after the 80m element was added? I have done this at a previous QTH and there was no noticeable interaction.

Both antenna seem to work very well, especially the 40m one.

PS...I tried elevating the 3 radials at the 10' level and tying them into the tower. This made the SWR higher on the 40m system from about 1.5:1 to 2:1 at resonance.

Steve / VE7SL

Date: Mon, 23 Aug 1999 08:20:37 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [48245] RE: 30m DX (continued)
Message-ID: <Pine.GS0.4.10.9908230802230.5152-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Folks,

Ade brings back some super memories.....back to the early 50's when I was first on. After several months I got an old Collins MBF rig. This was a little Xtal controlled RX and TX for 10m. AM only.

I cut the back end of an extra ARC5 TX off and made a VFO for the MBF TX. Used an old SX71 RX.

When I first got it finished I didn't have an antenna for 10m so I just stuck a rat tailed file in the antenna post. (For you youngsters that don't know, the older surplus rigs didn't have coax connectors.....they had little push connectors that were spring loaded and held the wire. There were mounted in insulators on either the front or back panels).

With that little file (about 10" long) I would work from Calif to Florida just about every day. Then the "skip" would move west and south. Many station went into the log that way.

Soon I got some wood scraps and built a frame for a yagi. Found some old conduit and water pipe. Made the elements for a 3 ele yagi and mounted them on the wood frame with friction tape!

The feed system was called a "Bazooka" if I remember right. What it was was a simple dipole made from old coax. Then the dipole was stuffed inside the driven element!

In the shack the center conductor was put in that little push connector and the shield was bolted to the box.

The yagi was sitting on the roof and I would run up there to move it as the band changed!

Man alive, I was in hog heaven!

Oh, that little rig was AC/DC and was always a shocking experience to touch anything metal! I kept an old sock (clean!) over the mic to keep from getting bitten!

Another little thing I did (as did everyone else that was broke!) was when we had a rig with a coax fitting on it seldom did we ever have one to put on the line. Or in most cases we only had twin lead or some other ballanced line anyway.

So I'd just put one wire inside the coax fitting and hold it there with a small screw or sometimes a little piece of wood.

Ground the other end of the feedline to the chassis and go have fun.

Didn't have any way to measure SWR and didn't even know anything about it for years! Didn't care.....just tried things and had fun.

Quite often I think that we are getting too smart for our own good.....too many people want to make everything just "textbook" right when in reality what we should be doing is trying things and having fun!

I still remember hearing the OF's at the club meetings saying that I was just too dumb to understand that you can't work DX with 2w of AM on 10m so I just did it! :-)

And almost 50 years later it's still as much fun to break a pile up while running QRP and going away being the only one that knows I was QRP.....big grin on my face every time!

Enjoy and have FUN!

(And always remember that ANY antenna is better than NONE!)

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 23 Aug 1999 08:32:26 MST
From: "Chuck Adams, K7QO" <k7qo@hotmail.com>
To: jmlowman@ix.netcom.com
Cc: qrp-l@lehigh.edu
Subject: [48246] Re: QRP Design
Message-ID: <19990823153226.48651.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Thanks for the info on the price increase on the book.

I am a firm believer in books. You will not find what you need on the Internet.

1. Visit your used book stores often. Here in Dallas we have many with Half Price Books being the most popular and the biggest with a new store to open up on Northwest Highway just east of I-75 (also know as Central Distressway :-). I have found a number of technical books for under \$10, but you have to get there before someone else catches the find.
2. I mentioned at Tuthill when someone else asked the same question on learning design. If you live near a college, browse the book store to see what book(s) they are using. Hey, maybe you could sign up for the course if it is taught at night.

One problem that many will/may face. For the really good design work you are going to need a significant amount of mathematics. It is a technical subject and requires it to fully understand a lot of it. You don't do brain surgery with a butter knife.

Education is expensive no matter how you get it. --- K7QO

FYI

Experience is what you get when you don't get what you want. ---

Golf sports announcer and I forgot who it was during Woods and Sergio race for the finish a few weeks ago. I think.

Chuck Adams K7QO CP-60 k7qo@hotmail.com <http://www.qsl.net/k7qo>

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Date: Mon, 23 Aug 1999 15:43:38 +0000
From: Ed Loranger <we6w@qsl.net>
To: Jeff Furman <jfurman@ocs.net>
Cc: qrp-1@lehigh.edu
Subject: [48247] Re: Feedline Measurements- Computer Ribbon Line
Message-ID: <37C16C2A.F89@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Jeff, you basically asked if I tested the cpu ribbon line while still part of the multiwire stip. No. I pulled the Black and White pair off and used it as a parallel transmission line. I described my test setup in detail so that it could be challenged and repeated by others. I am interested in what others measure as well.

With all the questions I have to ask: Is anyone else going to measure the ribbon line? I hope so, this appears to be high on the query list.

Probably cuz it is fun to do. It is addicting. Next you'll be measuring all the wire in the shack and cataloging Velocity Factors, etc.

I'm becoming certifiably crazy! After putting my rhombus shaped loop up 17 feet this weekend, I had the GDO out and also built a loop for FM radio (88-108 MHz). Har!

The xyl is looking for a little white jacket with straps and buckles!

But the DX FM Radio stations are coming in! My kids are impressed.

Have a great day, friends.

72/Ed we6w

--

-Ed AR Millennium Q's=>1000/2000 QRP-L#1068 BB#101
72, Ed WE6W, A-1 OP; <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 AR#112 HI-QRP#64 NC#2227 ARCI#9397 ARS#275

Date: Mon, 23 Aug 1999 11:44:39 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <rules@bellsouth.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [48248] RE: 811s
Message-ID: <001601beed7e\$6948e640\$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

What do they use for output transformers, I wonder?

Vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
> Randy Jouett
> Sent: Saturday, August 21, 1999 2:15 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: 811s

>

>

>

> -----Original Message-----

> From: Charles Kadesch <chas@digizen.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: Friday, August 20, 1999 11:40 AM
> Subject: Re: 811s

>

>

> Hi Chas,

>

> >Jerry W. O'Dell wrote:

> >>

> >> Definitely not qrp, but the price of 811s has increased

> >> rather much. Anyone who uses them should check!

> >
> >Oh no, the audio troops may have "discovered" it. The 304-TL has gone
> >out of sight since they are building KW+ audio amps with them for rock
> >concerts. Even the innocuous 6SN7 (on a lower power scale) has fallen
> >prey.
>
>
> Actually, Audio Research (super expensive audiophile amp company) and
> the others have been using the 811A for around 3 or 4 years, Chas. They
> are well aware of the 811, and they are running a pair per channel using
> Class A bias, getting some REALLY nice audio amplification from
> the things.
> Wasn't the 811 originally created for audio amplification?
>
> 72/73,
> ----
> Randy Jouett, AB5NI
>
> P.S.
>
> I was reading The Absolute Sound (audio rag) a few months ago, and I
> noticed that Audio Research was selling their 811 amps for -- drum roll --
> \$35,000.00 a shot. Now that's what I call being PROUD of a piece of
> audio gear :^).
>
>
>
>
>
>

Date: Mon, 23 Aug 1999 12:07:21 EDT
From: REDSBOY@aol.com
To: qrp-1@lehigh.edu
Subject: [48249] TiCK/EMTECH NW40
Message-ID: <3e241059.24f2cbb9@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am finishing an EMTECH NW40 and now need to put a keyer in it. The TiCK series looks good. I would appreciate any info/experiences with this combination. And if someone has other recommendations, I would appreciate those too.

Thank you.

Karl - W4UTI

Date: Mon, 23 Aug 1999 10:45:21 -0400
From: wd4et@juno.com
To: qrp-1@Lehigh.EDU
Subject: [48250] Re: QRP Design
Message-ID: <19990823.121318.-164941.1.wd4et@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I would definitely purchase a new edition of Paul's databook. The one I have now is getting pretty dog-eared.

73, Jeff

Date: Mon, 23 Aug 1999 13:13:50 -0400
From: "Mike Czuhajewski" <wa8mcq@erols.com>
To: "QRP forum" <qrp-1@lehigh.edu>
Cc: "wa8mcq" <wa8mcq@erols.com>
Subject: [48251] Re: Heathkit
Message-ID: <199908231722.NAA22455@xanadu.evi-inc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Here's a Heath web page you can check out. It covers ham gear as well as other types.

<http://members.accessus.net/~dwentz/kb9jja/heathkit/>

73 and queue our pea DE WA8MCQ

Date: Mon, 23 Aug 1999 13:35:49 -0400
From: "Mark Bellamy" <mark@intermediatn.net>
To: <qrp-1@Lehigh.EDU>
Subject: [48252] Re: QRP Design
Message-ID: <00d601beed8d\$f0ad1840\$0100a8c0@intermediatn.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks to everyone that replied. I certainly got many informative replies and am placing orders to get most of the publications that was suggested to me.

Also, Amazon.com has the "The Electronics of Radio" (CalTec EE20 course notes) for \$45, hardcover is \$100. So I imagine the other place that had it for \$100 was the hardcover.

Mark Bellamy
KT4AV
QTH is Kingsport, TN

Date: Mon, 23 Aug 1999 13:33:33 -0700
From: JPD <jdanter@mail.i-america.net>
To: qrp-1@Lehigh.edu
Subject: [48253] NTE Crossreference
Message-ID: <37C1B01D.5E47@mail.i-america.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

http://www.nteinc.com/Web_pgs/Prodindex.html

Date: Mon, 23 Aug 1999 08:16:41 -0700
From: DONALD I ROHER <donroher@juno.com>
To: prvalko@oakland.edu
Cc: qrp-1@Lehigh.EDU
Subject: [48254] Re: Humble Pie - An incredible antenna
Message-ID: <19990823.104716.6502.0.DONROHER@juno.com>

I was assigned to a Forward Air Control outfit in Viet Nam. We used Zip cord as our standard portable H.F antenna. It was much more durable than any of the commercial antennas. We would unroll it, measure it, we had a tape measure marked in freq, split it, tie a knot at the center, hang it

in two trees, we didn't use a tuner as the radio had a matching unit built in, and we were on the air in about ten minutes.

If we had to make a quick exit we left the antenna behind.

On Sun, 22 Aug 1999 23:35:50 -0400 (EDT) "Paul R. Valko"

<prvalko@oakland.edu> writes:

>

>Gang,

>

>For 20-some years I have scoffed whenever I read or heard about

>somebody

>who had to use an indoor antenna. I was convinced that there was no

>way

>anything like that would work.

>

>I'm sorry, I was wrong.

>

>Even though I am a huge fan of Rocky's articles in the Mi-QRP Club

>magazine, I need really gave much credance to his "ramshackle

>radiator."

>

>So anyways... for several years we've owned this small cottage up in

>the

>"thumb" of Michigan. The children lovingly call it, "The Little

>House."

>Even after all those years, I never got much up for a skyhook, other

>than

>the occasional mobile-whip-on-a-magmount-stuck-on-the-shed.

>

>A few weeks ago, I bought a 50' spool of 16ga lamp cord at Radio

>Shack.

>So out of desperation last night, I split that 'zip cord' down the

>middle

>and quickly had a tangle of two 50' wires.

>

>After untangling the mess I had created, I cautiously screwed the

>striped

>end of one of the wires into my trusty MFJ tuner. There was NO feed

>line, so I simply decided to use the "Balanced Line" output

>connections.

>

>My Triton IV sprang to life with the buzz of the 40M band. Within

>moments, I had that first 50 feet of wire run all along the walls of

>the

>cottage. The wire was stuffed into cracks, draped over the windows,

>hung

>over doors. The second 50 feet was connected to the opposite side of
>the
>balanced line outputs and likewise draped in the opposite direction,
>ending up in the closet of the girl's bedroom.
>
>What I ended up with, was basically, a six-foot-high horizontal loop,
>indoors of an aluminum sided 900 sqft cottage.
>
>The antenna loaded up fine on 40M. My daughters and their overnight
>guest were none too pleased with the TVI, but they needed to go to bed
>soon anyways.
>
>The NJ-QSO Party was active and I quickly made a few QSOs, both on
>high
>power SSB, and QRP CW! There was a lot of activity on 20M so I tuned
>up
>there and worked a station in TX while running 10W SSB.
>
>I worked a station in France on 40M CW and 100w.
>
>Actually, I worked everyone I could hear. It was almost like being at
>home.
>
>Imagine if this were outdoors!?! I'll be putting up a horizontal loop
>soon at W8KC. Maybe this year *I'll* work a few more foxii!
>
>73! =paul= W8KC
>Collector of Ten*Tecs and other fine plastics
><<http://www.acs.oakland.edu/~prvalko>>
>
>
>
>
>
>

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Mon, 23 Aug 1999 11:09:00 -0700
From: "Kory Hamzeh" <kory@avatar.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [48255] RE: Humble Pie - An incredible antenna
Message-ID: <002301beed92\$93247240\$14ce21c7@tomcat.avatar.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

To the antenna guru's,

When using zip cord as described below, would you measure out so that each end is 1/4 wavelength? How come the vertical portion (the part not split) doesn't change the frequency of the antenna?

Thanks,
Kory
AC6RN

>
> I was assigned to a Forward Air Control outfit in Viet Nam. We used Zip
> cord as our standard portable H.F antenna. It was much more durable than
> any of the commercial antennas. We would unroll it, measure it, we had a
> tape measure marked in freq, split it, tie a knot at the center, hang it
> in two trees, we didn't use a tuner as the radio had a matching unit
> built in, and we were on the air in about ten minutes.
>
> If we had to make a quick exit we left the antenna behind.
>
>

Date: Sat, 21 Aug 1999 04:35:22 -0600
From: "William R. Colbert" <af852@rgfn.epcc.edu>
To: n1yuk@nemaine.com, qrp-1@lehigh.edu
Subject: [48256] Re: Heathkit
Message-ID: <37BE80EA.3CC62EFE@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

These are bookmarks I have for some of the Heath stuff,
the first one has stuff for sale, the others have info, plus
links.

<http://home.earthlink.net/~docky/>
<http://www.heathkit-museum.com/hkham.html>
<http://www.heathkit-museum.com/>
<http://members.aol.com/w3dx/index.html>

One of the museum sites above did not work my last time
in but don't remember which, so included both.

Hope this is what you are looking for.\

73

Ray

--

"Politicians are like nappies. Both should be
changed regularly -- and for the same reason"

"Scotsman - Scotsman's Diary 12/97"

Ray Colbert, W5XE, 00TC 3618, SOWP 1064M NCT2
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

Date: Mon, 23 Aug 1999 14:26:07 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Kory Hamzeh <kory@avatar.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [48257] RE: Humble Pie - An incredible antenna
Message-ID: <Pine.0SF.3.95.990823142305.16741C-100000@saturn3.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just to clarify my zip cord antenna...

Please understand that there WAS NO FEEDLINE. I had a 50' length of wire
connected to one side of the balanced line output, and another 50' foot
length attached to the other side.

No feed line involved, not even zipcord!

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics
<<http://www.acs.oakland.edu/~prvalko>>

On Mon, 23 Aug 1999, Kory Hamzeh wrote:

> To the antenna guru's,
>
> When using zip cord as described below, would you measure out so that each
> end is 1/4 wavelength? How come the vertical portion (the part not split)
> doesn't change the frequency of the antenna?
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> Thanks,
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> AC6RN
>
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> > cord as our standard portable H.F antenna. It was much more durable than
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> > tape measure marked in freq, split it, tie a knot at the center, hang it
> > in two trees, we didn't use a tuner as the radio had a matching unit
> > built in, and we were on the air in about ten minutes.
> >
> > If we had to make a quick exit we left the antenna behind.
> >
> >
>
>

Date: Mon, 23 Aug 1999 11:54:29 -0700 (PDT)
From: Jim Durkin <jimdurkin@yahoo.com>
To: jmlowman@ix.netcom.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [48258] Re: QRP Design
Message-ID: <19990823185429.23198.rocketmail@send205.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I looked at the web page below and the cost of the paperback book seems
to be \$44.95. Looks good.

72

Jim kt4a

--- Jim Lowman <jmlowman@ix.netcom.com> wrote:
> astone@erols.com wrote:
>
> > Hi Mark,
> >
> > My favorite RF design books include RF Circuit
> Design by Chris Bowick
> > (still in print I think), The Electronics of Radio

> by David Rutledge of
> > Cal. Tech. - this is actually his notes for his
> course EE20 and analyzes
> > the design of the Norcal 40A xcvr. I also highly
> recommend the Autumn
> > 1998 issue of QRPP which is devoted to analyzing
> the design of Dave
> > Benson's SW-40+ xcvr. These three sources assume
> little or no prior
> > knowledge and really dig into design issues pretty
> well while generally
> > avoiding a tremendous amount of math. Good luck!
>
> Gang,
>
> Those of us who have the original EE20 course notes
> should be even
> happier to have them now. As Prof. Rutledge
> mentioned at Pacificon last
> year, this book has gone from an in-house
> publication to one published by
> Cambridge University Press, and now sells for a
> whopping \$100!
>
> The web page at:
>
> <http://www.its.caltech.edu/~mmic/group.html>
>
> will provide more info.
>
> 72 de Jim - AD6CW
>
>
>

Do You Yahoo!?

Bid and sell for free at <http://auctions.yahoo.com>

Date: Mon, 23 Aug 1999 11:56:12 -0700 (MST)
From: Gary Hembree <gary.hembree@asu.edu>
To: qrp-1@lehigh.edu
Subject: [48259] CFA (Crossed field antenna) Discussion and references
Message-ID: <3.0.32.19990823115434.008ff8a0@imap4.asu.edu>
MIME-version: 1.0

Content-type: text/plain; charset="us-ascii"

I found this post amongst many others in a recent discussion of the CFA on the NEC (antenna modeling program) mailing list archives. The date of this post was 10 Feb 1999. Note the references at the end and the author's credentials. FYI

Remember: "There's no such thing as a free lunch."

73 de N7IR

Gary Hembree, Ph.D.
Senior Research Scientist
Department of Physics and Astronomy
Arizona State University
Tempe, Arizona 85287-1504
gary.hembree@asu.edu

Date: Mon, 23 Aug 1999 11:59:37 -0700 (MST)
From: Gary Hembree <gary.hembree@asu.edu>
To: qrp-l@lehigh.edu
Subject: [48260] CFA (Crossed field antenna) Discussion and references
Message-ID: <3.0.32.19990823115759.008f8b70@imap4.asu.edu>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

(Sorry, too fast on the send button. Attached below is the relevant discussion.)

I found this post amongst many others in a recent discussion of the CFA on the NEC (antenna modeling program) mailing list archives. The date of this post was 10 Feb 1999. Note the references at the end and the author's credentials. FYI

Remember: "There's no such thing as a free lunch."

73 de N7IR

Gary Hembree, Ph.D.
Senior Research Scientist
Department of Physics and Astronomy
Arizona State University
Tempe, Arizona 85287-1504
gary.hembree@asu.edu

Dear Grant, Roy, and many others,

For purposes of copying my comments to readers outside those on the NEC-List, we need to go back to the original TC I posted, on 15 November 1995, so as to provide a beginning --- and to add other references that have emerged as a result of my recent posting.

Please copy to whoever, since this might stimulate further thinking about the antenna, and what is needed is additional performance measurements.

And, thank you all for the interesting mail on the subject.

73, Jack, VE2CV

The Cross-Field Antenna
Should we go for it or let it Rest in Peace?

An antenna is sometimes described as a coupling device, coupling electromagnetic energy to space, and following on with this line of thinking, antenna amateurs/specialists have wondered whether there were methods of achieving this process in more efficient ways than provided by use of monopoles, dipoles and loops. The performance of electrically small antennas is a subject that has been of interest for me for more than 50-years.

For example, can we devise an antenna system that will radiate only a true Zenneck-wave, and thus provide extended ground-wave coverage, without the interference effects of a skywave. The answer to this query is no. Since a spacewave arriving tangentially at the surface of the earth will generate a ground wave, a ground wave will most certainly generate a spacewave. And, concerning more efficient coupling to the propagation media, most ideas that have so far emerged are hoaxes. In one, where one considers an antenna as an opened out transmission line, it is claimed that the characteristic impedance of

the antenna should be made equal to the intrinsic impedance of free space (377 ohms). This is nonsense. In another, it is claimed that the antenna's radiation resistance should be made equal to the intrinsic impedance of free space. This latter statement has even less meaning, since the antenna's radiation resistance for a specific antenna depends on where you decide to reference it on the antenna structure.

Continuing, in 1989 (see Electronics + Wireless World, March, July and November, 1989, and December 1990) and in following years, Maurice C. Hatley, GM3HAT describes a cross-field antenna (CFA), in which quadrature E and H fields are separately generated. A follow on paper [1] offered an explanation of its properties in terms of "Poynting vector synthesis". In the words of the inventor, reversing the form of Maxwell's equations led to the "realization and development of this revolutionary new antenna system". Quite small versions of it have (apparently) been fabricated and tested, cf. reference [1], to demonstrate its ability to efficiently couple EM energy to space --- but, notwithstanding, in my view this antenna also fits the category of a hoax, since attempting to generate $E \times H$ in the antenna itself, and claiming that such an antenna more effectively couples to the space surrounding the antenna is about as fruitless as the other ideas discussed above.

Proving beyond any doubt that a theory is completely wrong is very difficult [c.f 2, and inventor's reply 3]. But it is possible to conduct experiments as scientifically and impartially as possible, and to draw firm and well founded conclusions from them under the test conditions [4] --- but even here we have inconsistency --- since the result obtained depends on who is doing the experiment, the inventor or someone else.

The Hatley, Kabbary and Khattrib paper claims that the field strengths and, service area for a small (1.6 percent of a wavelength high) MF CFA in Egypt is identical to that provided by a 75 m quarter wavelength vertical.

The Egyptian antenna is a ground-plane (GP) type CFA on the roof of the transmitter building, and after listening to the presentation of that paper, I questioned whether the radiation realized was in fact generated by the GP CFA, or by currents flowing on the outside surface of the coaxial cable feeding the antenna. I also wondered whether the previously used quarter wave vertical antenna might indirectly (induced currents and re-radiation) be a part of the antenna system.

At a more recent IEE ICAP Meeting (Edinburgh, April 1997), I was presenting a paper on elevated radials, I met Hatley and his Egyptian colleague (Khattrib), or should I say they cornered me; and I learned that the Broadcaster was happily still using the antenna --- or should I say the authors still believed in the results of their experiment --- in retrospect I am not sure now which is which.

Maurice told me that he was developing HF versions of this antenna for use by radio amateurs, for mobile communications, and he would send me details on it. I told him I would be glad to measure the radiation efficiency of his amateur version --- but, no correspondence or offer of an antenna has to date been received.

In 1992 Colin Davis, University of Surrey [4], conducted a study of a VHF dipole version of the CFA, his model was a 50-percent scaling of Hatley's original antenna. His work, carried out to investigate whether the CFA does operate as an efficient radiator, casts doubts about it, which seem overwhelming.

Despite his best efforts to make it work, the best Davis could achieve, with respect to gain was - 23 dBd ["The great tragedy of science --- the slaying of a beautiful hypothesis by an ugly fact", T.H. Huxley].

The article by Davis starts off by a consideration of the impedance of the antenna, since power cannot be successfully coupled to the antenna unless its impedance is known. Little information is available in the literature to indicate what value this might be. It is interesting to note that a discussion with Hatley [Davis-Hatley, private communications], suggested that both input impedances of the CFA antenna (E-plate and D-Plate parts of the antenna) should be around 300 ohms --- clearly referencing performance to the intrinsic impedance of free space.

Smith [5] has considered input impedance. He considers that the E-plates should have the characteristic impedance of an electrically small dipole; and the D-plates are nothing more than a capacity, the D-plates having a similar capacitive reactance to the E-plates. Smith also concludes that there is nothing magical about the cross-field antenna, since it will encounter the same efficiency-bandwidth limitation, as for any electrically small antenna [6].

And, Smith makes reference to my article [7] which reveals that the hula-hoop antenna (earlier called the DDDR antenna) is nothing more than a resonate inverted-L --- and so the efficiency of this antenna becomes vanishing small as the height (above the ground plane) of the horizontal part of the hula-hoop becomes small.

So, in conclusion, is the debate concluded --- should the CFA RIP?

73, John S. (Jack) Belroser, PhD. Cantab, VE2CV
john.belrose@crc.ca
10 February 1999

References

1. M.C. Hatley, F.M. Kabbary and Khattab, "An Operational MF Antenna using Poynting Vector Synthesis", Proceedings of 7TH International Conference on Antennas and Propagation, Part 2, Conference Publication No. 333, April 1991, pp. 645-648.
2. K. Donaldson, "Misguided CFA", Electronics World+Wireless World, October 1992, pp. 837-838.
3. M.C. Hatley, "CFA -- no tricks", Electronics World+Wireless World, December 1992, p. 1007.
4. Colin Davis, "CFA --- RIP?", Electronics World + Wireless World, May 1993, pp. 405-407.
5. M.S. Smith, "Conventional Explanation for 'Crossed Field Antenna'", Electronic Letters, 28, 13th February, 1992, pp. 360-361.
6. H.A. Wheeler, "Fundamental limitations of small antennas", Proc. IRE, 35, 1947, pp. 1479-1484.

7. J.S. Belrose, "Transmission line low profile antennas", QST, December 1975, pp. 19-25.

8. J.M. Boyer, "The Hula-hoop antenna: a coming trend?", Electronics, 11, January, 1963, pp. 44-46.

John S. (Jack) Belrose, PhD Cantab, VE2CV
Senior Radioscientist
Radio Sciences Branch
Communications Research Centre
PO Box 11490 Stn. H
OTTAWA ON K2H 8S2
CANADA
TEL 613-998-2779
FAX 613-998-4077
e-mail <john.belrose@crc.ca>

Date: Mon, 23 Aug 1999 01:28:22 gmT
From: waltk8cv@juno.com
To: tmccullo@suffolk.lib.ny.us
Cc: qrp-1@lehigh.edu
Subject: [48261] Re: MFJ Hi-Q Loop Antennas
Message-ID: <19990823.175817.-205695.2.waltk8cv@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Tom and the rest of the WORLD:

Why !! Why would anyone buy one of these? Think about it Tom!

I see you are from New York but not DOWNTOWN ISLAND APARTMENT NEW YORK but something called suffolk, probably a county. Any indoor antenna is better than a MFJ LOOP !! Even and indoor antenna laying on the basement floor and sure costs a LOT less! I hate to be negative but If you can put something outside try any wire in any tree or even around the fence. NO,

well , how about in the attic? NO, well how about from curtain rood to curtain rod in an upstairs bedroom? NO, well, how about under the rug? You get the idea , I once used an antenna around the living room base board behind the furniture. I operated after everyone went to bed! It worked! Contested with it in a rental house on the Gulf of Mexico in Florida. It can be done.

Walt K8CV Royal Oak, Mi. Qrp-L# 935 Zombie# 188

On Sun, 22 Aug 1999 16:29:08 -0400 "Tom McCulloch"

<tmccullo@suffolk.lib.ny.us> writes:

> Hi All,

> This may have been discussed before, however, I was wondering if
> anyone

> has any experience with the MFJ "Super High-Q Loop" Antennas.

> Notwithstanding the narrow bandwidth inherent in these designs, I 'd

> appreciate any feedback. I thought the narrow bandwidth wouldn't be
> too

> much of a problem because I spend most of my time in the qrp portion
> of the
> cw bands.

>

> MFJ has several models out now. The MFJ-1785 is about 3 feet in
> diameter and covers 10 through 30 MHz. They have a newer model,

> MFJ-1788

> which 40 to 15 meters (I'm not clear whether it goes up to 10 meters
> or

> not).

>

> Thanks in advance for any input you may have.

>

> Tom

> WB2QDG

>

>

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Date: Mon, 23 Aug 1999 12:04:18 -0700

From: Jim Lowman <jmlowman@ix.netcom.com>

To: "Chuck Adams, K7QO" <k7qo@hotmail.com>

Cc: qrp-l@lehigh.edu

Subject: [48262] Re: QRP Design
Message-ID: <37C19B32.10E070D3@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Chuck Adams, K7Q0" wrote:

>

> Thanks for the info on the price increase on the book.

No problem! That's a bit steep, even for a technical publication.

> I am a firm believer in books. You will not find what you need on
> the Internet.

>

> 1. Visit your used book stores often. Here in Dallas we have many
> with Half Price Books being the most popular and the biggest
> with a new store to open up on Northwest Highway just east of
> I-75 (also know as Central Distressway :-). I have found a
> number of technical books for under \$10, but you have to get
> there before someone else catches the find.

Especially those of you near a university, particularly one where they have an EE department. Many times, the smaller independent bookstores buy textbooks from students at a price better than they can get from the bookbuyers on campus. I found a classic book on UNIX at a little bookstore in downtown Santa Rosa, CA, that looked like the student had either taken exceptional care of it, or had dropped the class early in the term. University bookstores also sell used textbooks, at 50-75% of the new price. Check out the DeVry bookstore, if you have a campus in your area. (Thanks, Chuck!)

> 2. I mentioned at Tuthill when someone else asked the same question
> on learning design. If you live near a college, browse the book
> store to see what book(s) they are using. Hey, maybe you could
> sign up for the course if it is taught at night.

Gosh, that was me, Chuck! :-)

I really appreciated the answer that you and Jim Duffy gave to this question. For the benefit of those not at Tuthill, I'll repeat the good advice:

--ARRL Handbook
--The Art of Electronics
--Solid State Design for the Radio Amateur

Jim also suggested getting an electronics textbook for a discipline

other than engineering, such as physics.

The other suggestions made here on the list that were especially worthy, were Paul Harden's Data Book for QRP and the EE20 textbook under discussion now.

> One problem that many will/may face. For the really good design
> work you are going to need a significant amount of mathematics.
> It is a technical subject and requires it to fully understand a lot
> of it. You don't do brain surgery with a butter knife.
>
> Education is expensive no matter how you get it. --- K7QO

Agreed. For having the full calculus sequence in college, the math still seems daunting to me, after years of non-use. Of course, I've become eligible for QCWA membership since college! :-)

72 de Jim - AD6CW

Date: Mon, 23 Aug 1999 12:01:55 -0700
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [48263] New Island Award Program
Message-ID: <37C19AA3.C97AEF16@dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For those who enjoy chasing awards and islands here is some info you might like seeing:

IOTA Millennium Programme - IOTA 2000 - Press release from the RSGB

The RSGB IOTA Committee and CDXC (Chiltern DX Club) - The UK DX Foundation announce the establishment of the IOTA Millennium Programme - IOTA 2000. The purpose of this programme is to celebrate the Millennium, to promote IOTA activity and to have fun on the HF bands. The IOTA 2000 Programme will be administered by CDXC on behalf of the RSGB IOTA Committee.

The objective of IOTA 2000 is to contact as many different IOTA island groups as possible within the Millennium year 1 January 2000 to 31 December

2000 on the HF bands. There are two types of contact that count for credit -

premium contacts and normal contacts. Premium contacts are made during particular months and score extra points. A series of attractive certificates - the gold, silver and bronze certificates - will be available as will participation certificates.

Nevada Communications of the UK have agreed to sponsor the IOTA 2000 Programme. This sponsorship will cover the costs of administration and certificate design. (www.nevada.co.uk)

Details of IOTA 2000 can be found at www.cdxc.org.uk and the rules together with a listing of island groups, including the months when premium scores are made, can be downloaded from this site. This programme should be great fun - no QSL cards are required. Please contact iota.hq@rsgb.org.uk with any queries.

The above was posted with the permission of Bernnie. For more info on his Daily DX service, see below:

Bernie McClenny, W3UR, publishes THE DAILY DX (c) Monday through Friday. This e-mail message and its contents have a copyright and are proprietary products of THE DAILY DX (c). Any unauthorized use, reproduction, or transfer of the message or its content, in any medium, is strictly prohibited. For permission to quote, reprint or re-post this e-mail send a request including date, volume and issue number to THE DAILY DX (c), 3025 Hobbs Road, Glenwood, MD 21738, United States. Check out THE DAILY DX (c) homepage <http://www.dailydx.com> or for additional information you may phone THE DAILY DX (c) at 301-854-5650 or fax at 301-854-5105. Remember to tell all your DX friends about THE DAILY DX.

Thanks for the BW and I hope that some of you find this of use.

--

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 23 Aug 1999 12:15:16 -0700 (PDT)
From: David J Adams <adamsclan@netgate.net>
To: qrp-l@lehigh.edu
Subject: [48264] HiQ Loop antennas
Message-ID: <199908231915.MAA17925@u1.netgate.net>

Greetings! With all the loop bashing going on, I thought I'd pipe in a few words of encouragement. I use the AEA IsoLoop which is the same concept as the MFJ loops. However, it uses a step motor rather than the continuous drive motor of the MFJ loops, so it doesn't always tune precisely. I live in an apartment with plaster on metal walls (think prefab housing). I have a balcony that I can use for antennas and a landlord that searches religiously for new wires. I have tried all sorts of wire antennas to get on the bands. I've tried mobile whips and whip dipoles. My current "farm" consists of, a 40m dipole taped to the walls inside the apartment. It is roughly "U" shaped. It is WEAK, but has been the fox radiator, so until I move or buy an mfj, it will have to do. I use a 10m inverted "V" because it puts less rfi into the phones than the loop. For everything else, I use the AEA loop. I find that if I can hear it, I can work it. This applies to both QRP and 100W levels. Now, I may not be the first one he hears, but as long as I'm not fighting 1,000 other guys, I will work it and be able to have a clear qso. If you do not know how to tune the antenna, you will never work anyone. If it is not tuned dead on, it is a dummy load. AEA solved this problem by putting out an auto-tuner for the antenna. I picked one up used, and it works great. Tweaks the antenna in just perfect. It is also sensitive enough that it will tune a signal of 2-3W which is not bad. Anything lower, and you have to tune it manually. It would be nice if MFJ would produce such an auto-tuner, but with a little practice the manual method works fine. So, if wire antennas are just not a viable solution, get the loop, it is small, not too ugly and, more importantly, works.

73 de dave, n9uxu

Date: Mon, 23 Aug 1999 15:22:36 -0700
From: Charles Kadesch <chas@digizen.net>
To: qrp-l@lehigh.edu

Subject: [48265] re QRP Design
Message-ID: <37C1C9AC.779@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The books recommended are very good. I would add Electronic Principles by Malvino. Good mix of theory and practical applications including RF. No calculus- just algebra and trig are used.
-72 de Chas W3KC-

Date: Mon, 23 Aug 1999 14:39:56 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: waltk8cv@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [48266] Re: MFJ Hi-Q Loop Antennas
Message-ID: <37C1A38C.749681AD@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

waltk8cv@juno.com wrote:

>
> Tom and the rest of the WORLD:
>
> Why !! Why would anyone buy one of these? Think about it Tom!
>
> I see you are from New York but not DOWNTOWN ISLAND APARTMENT NEW YORK
> but something called suffolk, probably a county. Any indoor antenna is
> better than a MFJ LOOP !! Even and indoor antenna laying on the basement
> floor and sure costs a LOT less! I hate to be negative but If you can put
> something outside try any wire in any tree or even around the fence. NO,
> well , how about in the attic? NO, well how about from curtain rood to
> curtain rod in an upstairs bedroom? NO, well, how about under the rug?
> You get the idea , I once used an antenna around the living room base
> board behind the furniture. I operated after everyone went to bed! It
> worked! Contested with it in a rental house on the Gulf of Mexico in
> Florida. It can be done.

Walt, I agree that outdoors is better but not if its going to be detected and get you thrown off the air which can happen if you live in apartment or condo.

The ARRL was pretty positive on the MFJ loop in their review as far as 20 and 15 meters. And they did comparisons with the antenna outside and

inside. It did poorly on 40 but then what would we expect.

Almost anything will work, some better than others. When I used to be paranoid about my neighbors knowing I was a ham, I actually had an antenna that was attached to the subflooring in my basement. While it was six feet off the floor, it was literally at ground level. That random wire with tuner worked many stations on 40 meters from underground with 5 watts. The coup de grace was when I got an Isotron and worked Cuba with 5 watts from my basement. Who says dummy loads dont radiate. When I put it outside on my deck I worked Tahiti on 40. I also got 59 signal reports from several states on 75 meters with a multi-band vertical that I had just put together, strung across a couple chairs in my basement. No radials. Never worked that good when I installed it. :-)

Fortunately, I have antennas all over now but if you can work stations from underground, you can work them from anywhere.

73 de Dave, N0IT

Date: Mon, 23 Aug 1999 16:15:26 EDT
From: Drbob92031@aol.com
To: chas@digizen.net, qrp-1@lehigh.edu
Subject: [48267] Re: leaky battery mess
Message-ID: <bfa2095e.24f305de@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Chas;

You cant beat the cost of baking soda and vinigar. It also has stood the test of time. The only more efficient method is pay some one else to do it. Nah!!!! Stay with the tried/tested/ it works/system.

72/73 de Bob WA2EAW

Date: Mon, 23 Aug 1999 16:16:58 -0400
From: "The One and Only!" <mitch96@pobox.com>
To: qrp-1 <qrp-1@Lehigh.EDU>
Cc: TEN TEC LIST <tentec@contesting.com>
Subject: [48268] sending practice
Message-ID: <37C1AC3A.6F18F0A3@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I read the article in qst about making a code reader. Interesting, but i think i got something more powerful here, with my multi-megacycle,PIII, gigadrive, supershooter, point 25 nominal, stop, reset, start, clickMeister.

What im trying to say is, This soundblaster card is a signal processor, n0? Is/are there any programs that i can get, that can read cw.

Hopefully just input into the microphone jack in the card itself, not build some interface. Im not opposed to building something, just KISS.

Something out there??

this way i can monitor my sending on the pc so i don't EMBAREASS my self on the air, btw what does QLF mean

Hee, Hee.....

--

72.5, mitch ww4ml

Funny, I don't remember being absent minded.....

Date: Mon, 23 Aug 1999 13:21:19 -0700

From: Jim Lowman <jmlowman@ix.netcom.com>

To: jimdurkin@yahoo.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [48269] Re: QRP Design

Message-ID: <37C1AD3F.E7D87C05@ix.netcom.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Jim Durkin wrote:

>

> I looked at the web page below and the cost of the paperback book seems
> to be \$44.95. Looks good.

You're absolutely correct, Jim. I had missed the link on that webpage to the softcover option. Someone else pointed out that Amazon.com has it at the same \$44.95 price. Quite a jump over the \$20 that Puff Distribution sold it for a few years ago. Perhaps it's been updated substantially.

72 de Jim - AD6CW

Date: Mon, 23 Aug 1999 21:06:52 +0000

From: Goran Hosinsky <hosinsky@royac.iac.es>

To: mitch96@pobox.com, qrp-l <qrp-l@lehigh.edu>

Subject: [48270] Re: QLF

Message-ID: <37C1B7EC.E55452@royac.iac.es>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

QLF? are you sending with your left foot?
QLF I am sending with my left foot

73 Goran ea8yu

Date: Tue, 24 Aug 1999 16:08:57 -0500
From: Tim Ahrens <tahrens@hilconet.com>
To: waltk8cv@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [48271] Re: MFJ Hi-Q Loop Antennas
Message-ID: <37C309E9.4C181C1C@hilconet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Do you feel strongly about this Walt? hehe

cu

Tim W5FN

Date: Mon, 23 Aug 1999 11:23:59 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: qrp-1@lehigh.edu
Subject: [48272] Heathkit 25Mhz Oscilloscope
Message-ID: <3.0.6.32.19990823112359.00795d80@clients1.hawaii.rr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

We also have an *unbuilt* complete Heathkit model IO-4225 25 Mhz dual trace scope kit circa 1985 for sale. Dunno what it is worth, however I bet it would be fun to build!!! I already have 2 100Mhz Tek scopes on my workbench and am pressed for space as it is otherwise I'd build it myself :^).

--

/) _/_ It is a capital mistake to theorise before one has data.
/--/ _ / Insensibly one begins to twist facts to suit theories,

/ (_/ (_<__ Instead of theories to suit facts.
-- Sherlock Holmes, "A Scandal in Bohemia"
Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support
art@hawaii.rr.com

Date: Mon, 23 Aug 1999 14:37:49 MST
From: "Chuck Adams, K7QO" <k7qo@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [48273] QST Sept issue
Message-ID: <19990823213750.12512.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Gang,

First thing that I do when I get back from the mailbox
is read QST cover to cover 'cuz it's new and there's always
something in there that I need/like/etc.

1. Page 19, upper right photo. QRPers ooohing and aaahing over
some rig on a table. Note the copies of Wes Hayward's
SSD book, QRP classics, W1FB's QRP Notebook and in front
Paul Harden's book!!! :-) We see that a lot of this at each
hamfest.

Note that even the ARRL has taken note of the increased
QRP activity at all levels. If we keep up the positive
attitudes, pass-it-on mentoring (if someone helps you then
you have to help someone else with what you know or have
learned), more on the air operations, more meetings and getting
together in groups, then we can take over the world of
ham radio. :-) ;-) Well, OK, at least make some progress.

2. I want everyone that has this issue of QST to go to page 85,
John Hennessee's (N1KB) Washington Mailbox article on the
ULS of the FCC. I read it three times.

On page 86, right hand column, middle there is the question
about what if I don't register under ULS? If the info is
absolutely correct and no riders to follow, then I read that
every ham will be on the Internet or have to have a path to
get there. The summary that I get is that in order to do
anything with the FCC you have to be registered under the ULS.

Someone in FL was kind enough to point out that K7FO became a silent key some time ago and even did some phoning to WA and got me all the information to get a death certificate, file with the FCC to immediately free up the call, and for me to apply for same. I had already a few days ago decided to pass on the deal for many reasons, but had I wanted to I would have had to jump through too many hoops to get there...

So the Internet and ULS are the waves of future for most hams, but they can take my cold dead hands off the paddle after my last dit dit.

3. And on page 91, Op-Ed column and the article written by Randy Pirtle, N6GN, we all can associate with if we still use CW and operate QRP. It's like the UTC clock thing. It's there and for the CW/QRP thing it's a challenge we like everyday. Beats the heck out of watching TV.

FYI es enjoyment --- let the flame wars begin again.....

Get Free Email and Do More On The Web. Visit <http://www.msn.com>

Date: Mon, 23 Aug 1999 17:42:09 EDT
From: K2UD@aol.com
To: hosinsky@royac.iac.es
Cc: qrp-1@lehigh.edu
Subject: [48274] Re: QLF
Message-ID: <e30b1a25.24f31a31@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

QLFf- I am sending with my left toe.

72

Howard Kraus, K2UD

Date: Mon, 23 Aug 1999 17:46:11 +500
From: Terry Bendell <terryb@bmts.com>

To: <mitch96@pobox.com>
Cc: <qrp-l@Lehigh.EDU>
Subject: [48275] Re: sending practice
Message-ID: <199908232141.RAA09788@Alice.BMTS.Com>
MIME-Version: 1.0

On 1999-08-23 mitch96@pobox.com said:
>self on the air, btw what does QLF mean
>Hee, Hee.....
>--

Send with left foot!

Net-Tamer V 1.11.2 - Test Drive

Date: Mon, 23 Aug 1999 17:47:25 -0400
From: "Ed Tanton" <n4xy@att.net>
To: <K2UD@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [48276] RE: QLF
Message-ID: <NBBBJDEEIFDDANGEGHLBEEKMGKAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I thought it meant you already have a WWVB clock!

72 / 73 Ed N4XY email: <n4xy@arrl.net>

Date: Mon, 23 Aug 1999 16:56:37 -0500
From: mjfitz@uswest.net
To: QRP-L Posts <qrp-l@LEHIGH.EDU>
Subject: [48277] Antenna Fantasy
Message-ID: <37C1C395.398AD6@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ladies, Gentlemen,

Indulge in a QRP fantasy:

<http://users.neca.com/cummings/rhombic.html>

<http://ns1.ktc.com/personal/jbwieser/rhombic.htm>

Everyone needs to dream...

Mike N0MF Mo. Valley IA

Date: Mon, 23 Aug 1999 16:55:13 -0500
From: "Charles Hamel" <cdhamel@pdq.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [48278] Curtis Keyer
Message-ID: <005801beedb2\$32a3a6a0\$34e290d1@cdhamel>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi gang, I have a friend who is a member of the Houston QRP group (Mark Fields KE5MY) , he has no computer and wanted me to pass this question to the group.

He has a old Tejas Keyer Kit, but needs the Curtis Chip 8044ABM

If anybody has this chip in their junkbox, or knows a resonable place to get it, please respond to me personally and I will pass the info to him!

as always thanks

Charles (KC5DXQ)

Date: Mon, 23 Aug 1999 22:56:43 +0100
From: "Colin" <gw3wsu@gw8nnc.screaming.net>
To: "Low Power Amateur Radio QRP Discussion" <qrp-l@Lehigh.EDU>
Subject: [48279] QLF
Message-ID: <002301beedb2\$69043e80\$b9e131d4@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I thought only the British had this sort of "sense of humour"

73 Colin GW3WSU

Date: Mon, 23 Aug 1999 18:31:01 -0400
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [48280] 15/10 Meter Converter?
Message-ID: <19990823.183103.-187707.1.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Sorry, but I got too quick on the <DELETE> this weekend.

For the party that mentioned the converter in front of their SX-25 back in the 60's, I did the same thing, and built the converter from the ARRL publication "Understanding Amateur Radio", First Edition, Second printing, a book I still have.

There were two different converters, one with plug-in coils that covered 20 - 6 Meters and one that was bandswitched and covered 20-10 Meters. I made a fixed-coil version of the plug-in coil model, and used a 25 MC/s crystal, allowing me to receive both 15 and 10 Meters by repeaking the 6AU6 tuned circuit. Tuning from 3 - 4 MC/s gave me coverage from 22 - 21 MC/s (tuning backwards!) on 15 and 28 - 29 MC/s on 10 Meters

NOTE: MC/s is "Megacycles per Second", the common usage dropped the /s as it was understood by all, and back in the 60's, frequencies didn't Hertz! (Sorry!!)

The later editions of "Understanding Amateur Radio", there were other receive converters for the same purpose, but solid-state units. Check out the older books at your next fleamarket...

Whoever posted the query, drop me a direct line here.

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp
My night light runs more power than my Rig!!!

Get the Internet just the way you want it.
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Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Mon, 23 Aug 1999 18:57:27 -0400
From: "Tim Cook" <timcook@erinet.com>
To: "[Ten Tec] - Reflector" <tentec@contesting.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [48281] WTB: Ten Tec Argonaut 509
Message-ID: <00e701beedba\$e1e90f80\$bb7f5acf@timcook.erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Looking for an Argonaut 509. please send info on condition, accessories, and price in direct email
Thanks and 73's
Tim
NZ8J

End of QRP-L Digest 1557

